

# Recombinant Human LSAMP Protein (Fc Tag)

Catalog Number:PKSH030896



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

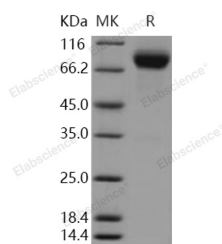
## Description

<b>Synonyms</b>	FLJ34254;FLJ35396;FLJ37216;FLJ54658;IGLON3;LAMP
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Asn 315
<b>Accession</b>	Q13449
<b>Calculated Molecular Weight</b>	59.0 kDa
<b>Observed molecular weight</b>	80-85 kDa
<b>Tag</b>	C-hFc
<b>Bioactivity</b>	Immobilized recombinant human OPCML-His at 10 µg/mL can bind recombinant human LSAMP-Fc with a linear range of 31. 25-250 ng/ml.

## Properties

<b>Purity</b>	> 97 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 97 % as determined by reducing SDS-PAGE.

## Background

The limbic system-associated membrane protein (LAMP) is a cell surface glycoprotein expressed by cortical and subcortical regions of the mammalian CNS that comprise or receive direct projections from limbic system structures. The 64-68-kDa glycoprotein limbic system-associated membrane protein (LsAMP) is expressed on the surface of somata and proximal dendrites of neurons. These areas perform cognitive and autonomic functions; also learning and memory. The functional analysis indicates that LsAMP acts as a selective adhesion molecule; serving as a guidance cue for specific patterns of connectivity; which underlies the normal development of the limbic system. In animal studies there have been

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found that rats with increased level of anxiety had 1.6-fold higher expression of LsAMP gene in the periaqueductal gray compared to rats with low level of anxiety; indicating a possible role of LsAMP in the regulation of anxiety.

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